Translation





PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference	The state of the Rule 70)						
S03P1464	FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)						
International application No.	International filing date (day/month/year) Priority date (day/month/year)						
PCT/JP2003/014700	19 November 2003 (19.11.2003) 25 December 2002 (25.12.2002)						
International Patent Classification (IPC) or n G11B 19/00, 20/10, H04N 5/85	ational classification and IPC						
Applicant	SONY CORPORATION						
 This international preliminary exami and is transmitted to the applicant ac 	ination report has been prepared by this International Preliminary Examining Authority cording to Article 36.						
2. This REPORT consists of a total of4 sheets, including this cover sheet.							
This report is also accompanie amended and are the basis for	ed by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been this report and/or sheets containing rectifications made before this Authority (see Rule Administrative Instructions under the PCT).						
These annexes consist of a tot							
3. This report contains indications relati	ing to the following items:						
I Basis of the report							
II Priority							
III Non-establishment of	opinion with regard to novelty, inventive step and industrial applicability						
IV Lack of unity of inver	ntion						
V Reasoned statement u citations and explanat	V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;						
VI Certain documents cit							
VII Certain defects in the	international application						
VIII Certain observations on the international application							
Date of submission of the demand	Date of completion of this report						
24 March 2004 (24.03.20							
Name and mailing address of the IPEA/JP	Authorized officer						
	- Table Officer						
Facsimile No.	Telephone No.						

Form PCT/IPEA/409 (cover sheet) (July 1998)

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

ernational application No.

PCT/JP2003/014700

I. Dasi	s of the r	eport
1. With	h regard t	o the elements of the international application:*
	the inte	ernational application as originally filed
\boxtimes		scription:
	pages	-
	pages	4-14, 16 , as originally file
	pages	1,2,3,3/1,15,17,18 , filed with the letter of
\boxtimes	the clai	
<u> </u>	pages	
	pages	, as originally filed
	pages	, as amended (together with any statement under Article 19
	pages	1-5 , filed with the demand
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	the drav	wings:
	pages	1-12 , as originally filed
	pages .	filed with the 1
	•	, filed with the letter of
Lt	he sequer	nce listing part of the description:
	pages	, as originally filed
	pages _	, as originally filed, filed with the demand
	pages _	, filed with the letter of, filed with the demand
With prelim	the lang the lang or 55.3). regard thinary exa containe filed tog furnished The stat internation	swere available or furnished to this Authority in the following language which is: uage of a translation furnished for the purposes of international search (under Rule 23.1(b)). uage of publication of the international application (under Rule 48.3(b)). uage of the translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/ o any nucleotide and/or amino acid sequence disclosed in the international application, the international amination was carried out on the basis of the sequence listing: d in the international application in written form. ether with the international application in computer readable form. d subsequently to this Authority in written form. d subsequently to this Authority in computer readable form. ement that the subsequently furnished written sequence listing does not go beyond the disclosure in the onal application as filed has been furnished. ement that the information recorded in computer readable form is identical to the written sequence listing has alished.
T be Replace in this and 70.	the the the this report as report as 17).	adments have resulted in the cancellation of: de description, pages de claims, Nos de drawings, sheets/fig thas been established as if (some of) the amendments had not been made, since they have been considered to go disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).** dets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to so "originally filed" and are not annexed to this report since they do not contain amendments (Rule 70.16).
		sheet containing such amendments must be referred to under item 1 and annexed to this report.
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ernational application No.
PCT/IP03/14700

	A SECONDARI EXALV	PC.171PO	3/14700			
V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
1. Statement						
Novelty (N)	Claims	••				
	Claims	15	YES			
¥ /**			NO			
Inventive step (IS)	Claims	 -	YES			
	Claims	1-5	NO NO			
Industrial applicability (IA)	Claims					
	Claims	1-5	YES			
	Ciailiis		NO			
2. Citations and explanations						
Tokyo, Japan, 1 October, 2000 (Control of the inventive step inventive of the disk device is separate of the disk device is separate.	oneer Electronic C Windows Me, (Te- me (Special Apper 01.10.00), Vol. 24 Volved in all the class ISR disclose a te	orp.), 9 April, 1993 (09.04.93) suya Hara, Nobuo Niwa, Masakazu Honda, E idix) of Monthly ASCII of October 2000, AS , No. 10, pages 97-102	SCII Corp., erein the power-			

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Supplemental Box

(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of: V

Regarding the transfer rate, documents 2-8 do not particularly disclose it; however, document 1, showing a mini disk (MD) well known as a disk device with an intermittent recording/reading system, describes in paragraph [0011] that "between the memory circuit and an optical magnetic disk, audio data is input/output at a data transfer rate of 1.4 Mbps, while between the memory circuit and the sound compression/decompression circuit, audio data is input/output at a data transfer rate of 0.3 Mbps," but does not contain any description to relate the quoted description with the cited parts of the said document ("particularly, paragraph 0075" in the

Added document 9, however, which relates to the same mini disk (MD) device with power-saving control as document 1, describes that:

"Fig. 5 explains 'idle time' in a MD recording/reproducing device.... As shown in Fig. 5, every predetermined quantity of data is read, stored in DRAM, etc., temporarily and decoded in a time longer than the time taken to read it. This is...because data has been compressed to about 1/5. Accordingly, the optical pickup and so on to read data has "idle time" when the reading operation is not necessary, except the time when data is being read. In other words, the difference between the data decoding time and the data reading time is "idle time" (paragraph [0019]).

The invention of document 9 relates to "power-saving operation during the idle time" taking advantage of the said "idle time" to extend the life of the power source, and the means of such operation is common to those of documents 1-8 and is well known.

As for the feature wherein the compression system and transfer rate for images to be recorded in a disk can be selected from among various systems/rates, prior to the filing of the present application, additional document 10, for example, which is an explanation of "Windows Movie Maker" attached to "Microsoft Windows Millennium Edition (Me)" (registered trademark), a typical computer operating system prior to the said filing, describes that "the compression bit rate is 28.8-768 kbps" (see page 97, Table 6-6, Screen 6-35) and that any bit rate can be selected from among a plurality of bit rates. Such a mode is well known in the field of

Considering the foregoing and paragraph [0019] of document 9, in view of the fact that such change of bit rate of images as in document 10 has an effect on the value "1/5" in "data is compressed to 1/5" as in document 9, and the fact that a higher bit rate means a larger quantity of data per unit time, it is obvious that the said effect makes the denominator smaller or the numerator larger in "1/5" in document 9.

Accordingly, when data with different bit rates is recorded and reproduced on the same disk, it is obvious that the "idle time" in document 9 is shorter as the bit rate is higher, and so where there occur such time differences, a person skilled in the art in the relevant field could have easily adopted the well-known mode of changing power-saving control according to the difference in "idle time" described in documents 1-8, prior to the filing of the present application, in view of the characteristics of data in document 10. So, the subject matters of all the claims of the present application do not appear to involve an inventive step.

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